

1999

FRP Subject Index

A

- Accuracy, definition of, C-2 – C-3, E-1
- Aeronautical charts, D-3
- Aeronautical radiobeacons (NDBs), 1-12, 3-22 – 3-23, C-35 – C-37
- Aeronautical radionavigation
 - Civil requirements, 2-3 – 2-12
 - Future plans for, 2-11 – 2-12, 4-2 – 4-6
 - ILS, 1-11, 3-20 – 3-21, C-31 – C-33
 - Local Area Augmentation System (LAAS), 1-10 – 1-11, 3-13 – 3-14, 4-4, C-19 – C-21
 - Loran-C, 1-10, 3-16, C-21 – C-24
 - MLS, 1-11, 3-22, C-33 – C-35
 - Phases of navigation, 2-3
 - R&D, 4-2 – 4-8
 - Systems used in, 3-2 – 3-4
 - TACAN, 1-11, 3-19 – 3-20, C-29 – C-30
 - VOR/DME, 1-10, 3-17 – 3-18, C-25 – C-28
 - Wide Area Augmentation System (WAAS), 1-10, 1-11, 3-12 – 3-13, 4-3 – 4-4, C-16 – C-18
- Ambiguity, definition of, C-4
- Augmentations to GPS
 - Aeronautical, 1-9 – 1-10, 3-12 – 3-14, 4-2 – 4-6, C-16 – C-18
 - CORS, 3-14 – 3-15
 - Maritime, 1-9, 3-10 – 3-12, 4-6, C-9 – C-13
 - Nationwide DGPS, 1-9, 3-11 – 3-12, 4-9, C-13 – C-15

Availability, definition of, C-3, E-2

C

Charts, nautical, D-2 – D-3

Charts, aeronautical, D-3

CJCS Master Navigation Plan, A-3

Continuously Operating Reference Stations (CORS), 2-29, 3-14 – 3-15, 4-10

Coverage, definition of, C-3, E-3

D

Differential GPS (DGPS)

Definition of, 1-9, 3-10, C-7 – C-9

LAAS, 1-10, 1-11, 3-13 – 3-14, 4-5 – 4-7, C-19 – C-21

Maritime, 1-9, 3-10 – 3-12, 4-6 – 4-7, C-9 – C-13

Nationwide DGPS, 1-10, 3-11 – 3-12, 4-9, C-13 – C-15

WAAS, 1-10, 1-11, 3-12 – 3-14, 4-3 – 4-7, C-16 – C-18

DOD R&D, 4-10 – 4-12

E

ECDIS, D-4

F

Fix dimensions, definition of, C-4

Fix rate, definition of, C-3

Flight management systems, 4-6

G

GLONASS, 3-8, 3-30, 4-3 – 4-4, B-7

GPS

Applications, 3-1 – 3-5

Description of system, 3-6, C-4 – C-7

Operating plan, 3-6 – 3-8

Policy, 1-8

User community, 3-6

GPS NOTAM/Aeronautical Information Service, C-40 – C-43
GPS overlay, 3-8

I

ILS

Applications, 3-4
Description of system, C-31 – C-33
Operating plan, 3-20
Policy, 1-11
User community, 3-20

Integrity, definition of, C-4, E-4

Intelligent Transportation Systems, 2-24 – 2-27, 4-7 – 4-8

Interoperability, of radionavigation systems, 3-30

International considerations, B-7

L

Land radionavigation requirements, civil, 2-24 – 2-27

Local Area Augmentation System (LAAS), 1-10 – 1-11, 3-13 – 3-14, 4-11, C-19 – C-21

Loran-C

Applications, 3-2, 3-4
Description of system, C-21 – C-25
Operating plan, 3-17
Policy, 1-10
User community, 3-17

M

Map and chart reference systems, D-3 – D-4

Maritime DGPS, 1-9, 3-10 – 3-12, 4-7 – 4-8, C-10 – C-13

Maritime radiobeacons, 1-12, 3-23 – 3-24, C-38 – C-39

Maritime radionavigation

Civil requirements, 2-13 – 2-21
DGPS, 1-9, 3-10, 4-7 – 4-8, C-10 – C-13
Future plans for, 2-20, 4-7 – 4-8
Loran-C, 1-10, 3-16 – 3-17, C-21 – C-25
Omega, 1-10
Phases of navigation, 2-12 – 2-14
Radiobeacons, 1-12, 3-23 – 3-24, C-37 – C-39
Systems used in, 3-4

Military radionavigation requirements, 2-32 – 2-33
MLS

Applications, 3-4
Description of system, C-33 – C-35
Operating plan, 3-22
Policy, 1-11
User community, 3-22

N

NASA R&D, 4-9
Nautical charts, D-2 – D-3
Navigation Information Service, USCG, C-39 – C-43
Navigation phases, descriptions of
 Air, 2-3
 Land, 2-24
 Marine, 2-13
 Space, 2-21

NOAA R&D, 4-10

O

Omega
 Policy, 1-10

P

Policy, 1-7 – 1-12
Precise Positioning Service (PPS), 1-8, C-6 – C-7

R

Radiobeacons, Aeronautical and Maritime
 Applications, 3-2 – 3-4
 Description of system, 3-22 – 3-24, C-35 – C-39
 Operating plan, 3-23 – 3-24
 Policy, 1-12
 User community, 3-23 – 3-24

Radio frequency spectrum considerations, B-7 – B-8

Railroad applications, 2-25, 4-9
Radionavigation policy statement, joint DOD/DOT, 1-7 – 1-12
Radionavigation system interoperability, 3-30
Radionavigation systems, descriptions
 Differential GPS, C-7 – C-21
 GPS, C-4 – C-7
 ILS, C-30 – C-33
 Loran-C, C-21 – C-24
 MLS, C-33 – C-35
 Radiobeacons, C-35 – C-39
 VOR,VOR/DME, and TACAN, C-24 – C-30

Radionavigation Systems Operating Plan, overall, 3-7
Reliability, definition of, C-3, E-5
Required Navigation Performance (RNP), E-5
Requirements, radionavigation
 Aeronautical radionavigation requirements, civil, 2-3 – 2-12
 Land radionavigation requirements, civil, 2-24 – 2-28
 Marine radionavigation requirements, civil, 2-13 – 2-21
 Military radionavigation requirements, 2-32 – 2-34
 Non-navigation requirements, civil, 2-28 – 2-32
 Space radionavigation requirements, civil, 2-21 – 2-23

S

Space applications, 3-4
Space radionavigation requirements, civil, 2-21 – 2-23
Spectrum considerations, B-7 – B-8
Standard Positioning Service (SPS), 1-8, 3-6 – 3-8, C-6 – C-7
Surveying and mapping applications, 3-5
System capacity, definition of, C-4

T

TACAN
 Applications, 3-2 – 3-4
 Description of system, 3-19, C-29 – C-30
 Operating plan, 3-19
 Policy, 1-10
 User community, 3-19

Timing applications of radionavigation systems, 2-30 – 2-32, 3-5

V

VOR and VOR/DME

- Applications, 3-2 – 3-4
- Description of system, 3-17, C-25 – C-28
- Operating plan, 3-17
- Policy, 1-10
- User community, 3-17

VORTAC, 3-17

W

Wide Area Augmentation System (WAAS), 1-10 – 1-11, 3-12 – 3-14, 4-3 – 4-7, C-16 – C-18